HYGIENETECH
Hygiene Technologies International, Inc.

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www.hygienetech.com

September 30, 2013

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21308001.1

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Surveys
August 2013 Random Sampling

Dear Mr. Gau:

On August 6, 12, 22, and 27, 2013, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving twenty two randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump Plus™ equipped with Air-O-Cell™ cassettes. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne fungi assessment analytical data with supporting and background information appear in the enclosed table.

As presented in Table 21308001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species*, Curvularia*, *Epicoccum, Oidium*, other brown, rusts, smuts, and/or *Torula.* In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included low levels of *Alternaria*, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species*, Curvularia, Nigrospora,* other brown*,* rusts smuts, and/or *Stachybotrys.* The distribution of fungal spore types detected in the surveyed areas was generally consistent with those found outdoors, and the overall data within the tested areas were well below the overall data recorded outdoors. Note that although a low but detectable level of *Stachybotrys* was found in the 10th Floor Elevator Lobby sample collected in the afternoon of August 22, subsequent air sampling performed in that same area indicated only low levels of smuts. The airborne *Stachybotrys* detected was likely an anomaly or originated from the outdoors. Overall, these data were considered

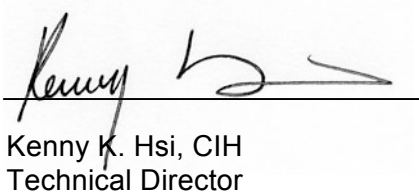
unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time these surveys were performed and at the precise sample locations indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.



Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21308001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 6, 12, 22, AND 27, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21308001-1 TM01OUT	21308001-1 TM02	21308001-1 TM03	21308001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet west of building; approximately five feet above ground/Normal outdoor activities	3rd Floor; Room 322; about seven feet northwest of entry door; approximately five feet above floor/Normal office activities	5th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	8th Floor; Column K20 area; Cubicle 28; about center; approximately five feet above floor/Normal office activities
DATE	08/06/13	08/06/13	08/06/13	08/06/13
START/STOP	15:23:00/15:28:00	15:34:00/15:39:00	15:41:00/15:46:00	15:48:00/15:53:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	80			
Ascospores				
Basidiospores	320			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	2,900		110	53
Curvularia				
Epicoccum	13			
Fusarium				
Nigrospora				
Oidium	13			
Other brown				
Other colorless				
Penicillium/Aspergillus types	270			
Pithomyces				
Rusts	27			
Smuts (Periconia, Myxomycetes)	350	53	110	27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	13	<13	<13
Background debris*	2+	2+	2+	1+
TOTAL**	3,900	53	210	80

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 6, 12, 22, AND 27, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21308001-1 TM05	21308001-1 TM06	21308001-1 TM07	21308001-1 TM08OUT
SAMPLING LOCATION/ACTIVITIES	11th Floor; Column N20 area; Cubicle 119; about center; approximately five feet above floor/Normal office activities	16th Floor; Conference Room 1618; about center; approximately five feet above floor/Normal office activities	20th Floor; Men's Restroom; about center; approximately five feet above floor/Normal restroom activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities
DATE	08/06/13	08/06/13	08/06/13	08/12/13
START/STOP	15:56:00/16:01:00	16:05:00/16:10:00	16:14:00/16:19:00	14:58:00/15:03:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				40
Ascospores				110
Basidiospores				270
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				1,900
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				40
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Hyphal fragments	13	<13	<13	67
Background debris*	2+	2+	2+	2+
TOTAL**	<13	<13	<13	2,400

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 6, 12, 22, AND 27, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21308001-1 TM09**	**21308001-1 TM10**	**21308001-1 TM11**	**21308001-1 TM12**
SAMPLING LOCATION/ACTIVITIES	4th Floor; Column M23 area; Cubicle 142; approximately five feet above floor/Normal office activities	7th Floor; Column L17 area; Cubicle 8; about center; approximately five feet above floor/Normal office activities	15th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	17th Floor; Column K18 area; cubicle immediately east of Column K18; about center; approximately five feet above floor/Normal office activities
DATE	08/12/13	08/12/13	08/12/13	08/12/13
START/STOP	15:06:00/15:11:00	15:14:00/15:19:00	15:22:00/15:27:00	15:31:00/15:36:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores			53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	110	53	110	
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	40			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	<13	13	<13
Background debris*	2+	1+	2+	2+
TOTAL**	150	53	160	<13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
AUGUST 6, 12, 22, AND 27, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21308001-1 TM13**	**21308001-1 TM14OUT**	**21308001-1 TM15**	**21308001-1 TM16**
SAMPLING LOCATION/ACTIVITIES	21st Floor; southern corridor; about three feet south of Freight Elevator; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	1st Floor; Room 129; about center; approximately five feet above floor/Normal office activities	6th Floor; Men's Restroom; about center; approximately five feet above floor/Normal restroom activities
DATE	08/12/13	08/22/13	08/22/13	08/22/13
START/STOP	15:39:00/15:44:00	13:35:00/13:40:00	13:44:00/13:49:00	13:53:00/13:58:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		67		
Arthrinium				
Ascospores				
Basidiospores		160		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		13		
Cladosporium	53	3,400		
Curvularia		13		
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown		13		27
Penicillium/Aspergillus types		160		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		27	13	
Stachybotrys				
Stemphylium				
Torula		13		
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	40	<13	<13
Background debris*	2+	2+	1+	2+
TOTAL**	53	3,800	13	27

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21308001-1 TM17	21308001-1 TM18	21308001-1 TM19	21308001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	10^{th} Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	14^{th} Floor; Break Room 1402; about center; approximately five feet above floor/Normal office activities	19^{th} Floor; Conference Room 1909; about five feet south of entry door from southern corridor; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet south of building; approximately five feet above ground/Normal outdoor activities
DATE	08/22/13	08/22/13	08/22/13	08/27/13
START/STOP	14:00:00/14:05:00	14:09:00/14:14:00	14:17:00/14:22:00	09:25:00/09:30:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				160
Basidiospores	53			210
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				2,600
Curvularia	13			13
Epicoccum				27
Fusarium				
Myrothecium				
Nigrospora		13		
Oidium				
Other brown				13
Penicillium/Aspergillus types	53	53		270
Pithomyces		13		
Rusts				120
Smuts (Periconia, Myxomycetes)	13			430
Stachybotrys	13			
Torula				13
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	80
Background debris*	2+	2+	2+	2+
TOTAL**	150	80	<13	3,800

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
AUGUST 6, 12, 22, AND 27, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21308001-1 TM21	21308001-1 TM22	21308001-1 TM23	21308001-1 TM24
SAMPLING LOCATION/ACTIVITIES	2nd Floor; Column N20 area; about seven feet east of Column N20; approximately five feet above floor/Normal office activities	9th Floor; Column K19 area; about 15 feet north of Column K19; approximately five feet above floor/Normal office activities	18th Floor; Mail Room 18B; about center; approximately five feet above floor/Normal office activities	22nd Floor; Break Room 2202; about center; approximately five feet above floor/Normal office activities
DATE	08/27/13	08/27/13	08/27/13	08/27/13
START/STOP	09:40:00/09:45:00	09:51:00/09:56:00	10:03:00/10:08:00	10:13:00/10:18:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	110		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13	27	13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	1+	2+	1+	1+
TOTAL**	67	190	27	<13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 6, 12, 22, AND 27, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21308001-1 TM25**	**21308001-1 TM26**	**21308001-1 TM27**	
SAMPLING LOCATION/ACTIVITIES	23rd Floor; Men's Restroom; entry area; about center; approximately five feet above floor/Normal restroom activities	24th Floor; northwestern quadrant; Cubicle 21 entry area; about center; approximately five feet above floor/Normal office activities	10th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	This Column intentionally left blank
DATE	08/27/13	08/27/13	08/27/13	
START/STOP	10:21:00/10:26:00	10:28:00/10:33:00	10:41:00/10:46:00	
SAMPLE TIME	5 minutes	5 minutes	5 minutes	
Alternaria	13			
Arthrinium				
Ascospores				
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	110		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)			13	
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	13	<13	13	
Background debris*	1+	1+	2+	
TOTAL**	67	170	13	

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21308001-1
EML ID: 1096954

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 08-08-2013

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21308001-1 TM01 OUT		21308001-1 TM02		21308001-1 TM03		21308001-1 TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4946906-1		4946907-1		4946908-1		4946909-1	
Analysis Date:	08/08/2013		08/08/2013		08/08/2013		08/08/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	6	80						
Ascospores								
Basidiospores	6	320						
Chaetomium								
Cladosporium	54	2,900			2	110	1	53
Curvularia								
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other colorless								
Penicillium/Aspergillus types†	5	270						
Pithomyces								
Rusts	2	27						
Smuts, Periconia, Myxomycetes	26	350	4	53	8	110	2	27
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		1+	
Hyphal fragments/m3	13		13		< 13		< 13	
Pollen/m3	110		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		3,900		53		210		80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21308001-1 TM05		21308001-1 TM06		21308001-1 TM07	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4946910-1		4946911-1		4946912-1	
Analysis Date:	08/08/2013		08/08/2013		08/08/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		< 13		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21308001-1 TM01 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California (n‡=16784)†						Typical Outdoor Data for: The entire year in California (n‡=188141)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	80	13	13	27	53	93	60	13	13	27	67	110	54
Bipolaris/Drechslera group	-	8	13	13	27	42	16	7	13	13	27	40	12
Chaetomium	-	10	13	13	27	53	25	8	13	13	27	47	19
Cladosporium	2,900	160	270	690	1,600	2,600	99	110	210	630	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Epicoccum	13	8	13	13	27	53	22	8	13	13	33	53	19
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Penicillium/Aspergillus types	270	53	110	270	670	1,100	89	53	100	210	590	1,000	85
Stachybotrys	-	7	13	13	27	54	5	7	13	13	33	67	4
Torula	-	10	13	13	40	53	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	-	13	33	75	200	320	67	25	53	110	360	690	71
Basidiospores	320	40	53	160	370	600	92	53	80	270	1,000	2,400	93
Oidium	13	13	13	13	40	67	19	13	13	13	40	75	19
Rusts	27	13	13	13	40	67	26	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	350	13	13	40	93	170	71	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,900												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21308001-1 TM01 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	80	7 - 33 - 580	46
Ascospores	< 13	13 - 200 - 5,600	76
Basidiospores	320	13 - 440 - 23,000	92
Cladosporium	2,900	27 - 480 - 10,000	91
Epicoccum	13	7 - 20 - 330	25
Oidium	13	7 - 13 - 240	12
Penicillium/Aspergillus types	270	13 - 170 - 2,700	69
Rusts	27	7 - 20 - 350	20
Smuts, Periconia, Myxomycetes	350	7 - 53 - 1,000	64
Total	3,900		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21308001-1 TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 6.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5774 Critical value: 0.6190 Outside Similar: No	Score: 110 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	53
Total	53

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Date of Sampling: 08-06-2013
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21308001-1 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 5 Result: 6.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.7917 Critical value: 0.6190 Outside Similar: Yes	Score: 118 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	110
Smuts, Periconia, Myxomycetes	110
Total	210

Location: 21308001-1 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 5 Result: 6.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.7976 Critical value: 0.6190 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Smuts, Periconia, Myxomycetes	27
Total	80

Location: 21308001-1 TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 6.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 13

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Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21308001-1 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 6.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21308001-1 TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 6.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21308001-1 TM01 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		6	80
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		54	2,900
Curvularia		ND	< 13
Epicoccum		1	13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		5	270
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		ND	< 13
Basidiospores		6	320
Oidium		1	13
Rusts		2	27
Smuts, Periconia, Myxomycetes		26	350
Total			**3,947**

Location: 21308001-1 TM02

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		110
Total			**53**	**Final MoldSCORE**	**110**

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Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM03

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		8	110		118
Total			**213**	**Final MoldSCORE**	**118**

Location: 21308001-1 TM04

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		104
Total			**80**	**Final MoldSCORE**	**104**

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Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM05

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21308001-1 TM06

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

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Re: 21308001-1

Date of Sampling: 08-06-2013
Date of Receipt: 08-07-2013
Date of Report: 08-08-2013

MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM07

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21308001-1
EML ID: 1099559

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 08-14-2013

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21308001-1 TM08 OUT		21308001-1 TM09		21308001-1 TM10	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4959369-1		4959370-1		4959371-1	
Analysis Date:	08/14/2013		08/14/2013		08/14/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40				
Ascospores	2	110				
Basidiospores	5	270				
Botrytis						
Chaetomium						
Cladosporium	36	1,900	2	110	1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	3	40	3	40		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	67		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2,400		150		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21308001-1 TM11		21308001-1 TM12		21308001-1 TM13	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4959372-1		4959373-1		4959374-1	
Analysis Date:	08/14/2013		08/14/2013		08/14/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores	1	53				
Botrytis						
Chaetomium						
Cladosporium	2	110			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		160		< 13		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21308001-1 TM08 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California (n‡=16784)†						Typical Outdoor Data for: The entire year in California (n‡=188141)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	40	13	13	27	53	93	60	13	13	27	67	110	54
Bipolaris/Drechslera group	-	8	13	13	27	42	16	7	13	13	27	40	12
Chaetomium	-	10	13	13	27	53	25	8	13	13	27	47	19
Cladosporium	1,900	160	270	690	1,600	2,600	99	110	210	630	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Penicillium/Aspergillus types	-	53	110	270	670	1,100	89	53	100	210	590	1,000	85
Stachybotrys	-	7	13	13	27	54	5	7	13	13	33	67	4
Torula	-	10	13	13	40	53	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	110	13	33	75	200	320	67	25	53	110	360	690	71
Basidiospores	270	40	53	160	370	600	92	53	80	270	1,000	2,400	93
Rusts	-	13	13	13	40	67	26	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	40	13	13	40	93	170	71	13	13	40	110	200	68
§ TOTAL SPORES/m3	2,400												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21308001-1 TM08 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	40	7 - 33 - 590	46
Ascospores	110	13 - 200 - 5,700	76
Basidiospores	270	13 - 450 - 23,000	92
Cladosporium	1,900	27 - 480 - 10,000	91
Penicillium/Aspergillus types	< 13	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes	40	7 - 53 - 960	64
Total	2,400		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21308001-1 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 4 Result: 4.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.4250 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	110
Smuts, Periconia, Myxomycetes	40
Total	150

Location: 21308001-1 TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 4.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7750 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Total	53

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Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21308001-1 TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 4 Result: 4.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.9250 Critical value: 0.8000 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Cladosporium	110
Total	160

Location: 21308001-1 TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21308001-1 TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 4.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7750 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Total	53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.
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Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21308001-1 TM08 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		3	40
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		36	1,900
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		ND	< 13
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		2	110
Basidiospores		5	270
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		3	40
Total			**2,373**

Location: 21308001-1 TM09

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		108
Total			**147**	**Final MoldSCORE**	**108**

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Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM10

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**101**

Location: 21308001-1 TM11

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**160**	**Final MoldSCORE**	**104**

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Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM12

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21308001-1 TM13

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**101**

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-12-2013
Date of Receipt: 08-13-2013
Date of Report: 08-14-2013

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21308001-1
EML ID: 1104440

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 08-26-2013

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-22-2013
Date of Receipt: 08-23-2013
Date of Report: 08-26-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21308001-1 TM14 OUT		21308001-1 TM15		21308001-1 TM16	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4981371-1		4981372-1		4981373-1	
Analysis Date:	08/26/2013		08/26/2013		08/26/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	5	67				
Ascospores						
Basidiospores	3	160				
Botrytis						
Chaetomium	1	13				
Cladosporium	63	3,400				
Curvularia	1	13				
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown	1	13			2	27
Other colorless						
Penicillium/Aspergillus types†	3	160				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	2	27	1	13		
Stachybotrys						
Stemphylium						
Torula	1	13				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	40		< 13		< 13	
Pollen/m3	130		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		3,800		13		27

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 21308001-1

Date of Sampling: 08-22-2013
Date of Receipt: 08-23-2013
Date of Report: 08-26-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21308001-1 TM17		21308001-1 TM18		21308001-1 TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4981374-1		4981375-1		4981376-1	
Analysis Date:	08/26/2013		08/26/2013		08/26/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores	1	53				
Botrytis						
Chaetomium						
Cladosporium						
Curvularia	1	13				
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora			1	13		
Other brown						
Other colorless						
Penicillium/Aspergillus types†	1	53	1	53		
Pithomyces			1	13		
Rusts						
Smuts, Periconia, Myxomycetes	1	13				
Stachybotrys	1	13				
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		150		80		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-22-2013
Date of Receipt: 08-23-2013
Date of Report: 08-26-2013

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21308001-1 TM14 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=16784)						Typical Outdoor Data for: The entire year in California† (n‡=188141)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	67	13	13	27	53	93	60	13	13	27	67	110	54
Bipolaris/Drechslera group	-	8	13	13	27	42	16	7	13	13	27	40	12
Chaetomium	13	10	13	13	27	53	25	8	13	13	27	47	19
Cladosporium	3,400	160	270	690	1,600	2,600	99	110	210	630	1,700	2,800	97
Curvularia	13	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Other brown	13	13	13	13	40	53	36	13	13	13	40	53	34
Penicillium/Aspergillus types	160	53	110	270	670	1,100	89	53	100	210	590	1,000	85
Pithomyces	-	7	13	13	27	53	6	7	13	13	27	53	4
Stachybotrys	-	7	13	13	27	54	5	7	13	13	33	67	4
Torula	13	10	13	13	40	53	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	-	13	33	75	200	320	67	25	53	110	360	690	71
Basidiospores	160	40	53	160	370	600	92	53	80	270	1,000	2,400	93
Rusts	-	13	13	13	40	67	26	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	27	13	13	40	93	170	71	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,800												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-22-2013
Date of Receipt: 08-23-2013
Date of Report: 08-26-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21308001-1 TM14 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	67	7 - 33 - 590	46
Ascospores	< 13	13 - 200 - 5,700	76
Basidiospores	160	13 - 450 - 23,000	92
Chaetomium	13	7 - 13 - 160	10
Cladosporium	3,400	27 - 480 - 10,000	91
Curvularia	13	7 - 27 - 610	17
Other brown	13	7 - 13 - 120	24
Penicillium/Aspergillus types	160	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes	27	7 - 53 - 960	64
Torula	13	7 - 13 - 180	9
Total	3,800		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21308001-1 TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.3958 Critical value: 0.5833 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	13
Total	13

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Re: 21308001-1

Date of Sampling: 08-22-2013
Date of Receipt: 08-23-2013
Date of Report: 08-26-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21308001-1 TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.2083 Critical value: 0.5833 Outside Similar: No	Score: 111 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	27
Total	27

Location: 21308001-1 TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 4 Result: 5.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.2909 Critical value: 0.5515 Outside Similar: No	Score: 121 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Curvularia	13
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	13
Stachybotrys	13
Total	150

Location: 21308001-1 TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 5.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.0182 Critical value: 0.5273 Outside Similar: No	Score: 110 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Nigrospora	13
Penicillium/Aspergillus types	53
Pithomyces	13
Total	80

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Re: 21308001-1

Date of Sampling: 08-22-2013
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21308001-1 TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-22-2013
Date of Receipt: 08-23-2013
Date of Report: 08-26-2013

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21308001-1 TM14 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		5	67
Bipolaris/Drechslera group		ND	< 13
Chaetomium		1	13
Cladosporium		63	3,400
Curvularia		1	13
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		3	160
Stachybotrys		ND	< 13
Torula		1	13
Seldom found growing indoors**			
Ascospores		ND	< 13
Basidiospores		3	160
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		2	27
Total			**3,827**

Location: 21308001-1 TM15

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		103
Total			**13**	**Final MoldSCORE**	**103**

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MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM16

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		2	27		111
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**27**	**Final MoldSCORE**	**111**

Location: 21308001-1 TM17

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		1	13		105
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		107
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**147**	**Final MoldSCORE**	**121**

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Re: 21308001-1

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Date of Receipt: 08-23-2013
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MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM18

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		1	13		105
Penicillium/Aspergillus types†		1	53		108
Pithomyces		1	13		105
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**80**	**Final MoldSCORE**	**110**

Location: 21308001-1 TM19

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

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C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21308001-1

Date of Sampling: 08-22-2013
Date of Receipt: 08-23-2013
Date of Report: 08-26-2013

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21308001-1
EML ID: 1105730

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 08-28-2013

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

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Client: Hygiene Technologies International, Inc.
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Re: 21308001-1

Date of Sampling: 08-27-2013
Date of Receipt: 08-27-2013
Date of Report: 08-28-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21308001-1 TM20 OUT		21308001-1 TM21		21308001-1 TM22		21308001-1 TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4987136-1		4987137-1		4987138-1		4987139-1	
Analysis Date:	08/28/2013		08/28/2013		08/28/2013		08/28/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores	3	160						
Basidiospores	4	210			1	53		
Chaetomium								
Cladosporium	48	2,600	1	53	2	110		
Curvularia	1	13						
Epicoccum	2	27						
Fusarium								
Myrothecium								
Nigrospora								
Other brown	1	13					1	13
Other colorless								
Penicillium/Aspergillus types†	5	270						
Pithomyces								
Rusts	9	120						
Smuts, Periconia, Myxomycetes	32	430	1	13	2	27	1	13
Stachybotrys								
Stemphylium								
Torula	1	13						
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		2+		1+	
Hyphal fragments/m3	80		< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		3,800		67		190		27

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 21308001-1

Date of Sampling: 08-27-2013
Date of Receipt: 08-27-2013
Date of Report: 08-28-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21308001-1 TM24		21308001-1 TM25		21308001-1 TM26		21308001-1 TM27	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4987140-1		4987141-1		4987142-1		4987143-1	
Analysis Date:	08/28/2013		08/28/2013		08/28/2013		08/28/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13				
Ascospores								
Basidiospores					1	53		
Chaetomium								
Cladosporium			1	53	2	110		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts					1	13		
Smuts, Periconia, Myxomycetes							1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		2+	
Hyphal fragments/m3	< 13		13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		< 13		67		170		13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 21308001-1

Date of Sampling: 08-27-2013
Date of Receipt: 08-27-2013
Date of Report: 08-28-2013

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21308001-1 TM20 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=16784)						Typical Outdoor Data for: The entire year in California† (n‡=188141)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	93	60	13	13	27	67	110	54
Bipolaris/Drechslera group	-	8	13	13	27	42	16	7	13	13	27	40	12
Chaetomium	-	10	13	13	27	53	25	8	13	13	27	47	19
Cladosporium	2,600	160	270	690	1,600	2,600	99	110	210	630	1,700	2,800	97
Curvularia	13	8	13	13	27	53	12	7	13	13	27	53	6
Epicoccum	27	8	13	13	27	53	22	8	13	13	33	53	19
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Other brown	13	13	13	13	40	53	36	13	13	13	40	53	34
Penicillium/Aspergillus types	270	53	110	270	670	1,100	89	53	100	210	590	1,000	85
Stachybotrys	-	7	13	13	27	54	5	7	13	13	33	67	4
Torula	13	10	13	13	40	53	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	160	13	33	75	200	320	67	25	53	110	360	690	71
Basidiospores	210	40	53	160	370	600	92	53	80	270	1,000	2,400	93
Rusts	120	13	13	13	40	67	26	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	430	13	13	40	93	170	71	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,800												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Re: 21308001-1

Date of Sampling: 08-27-2013
Date of Receipt: 08-27-2013
Date of Report: 08-28-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21308001-1 TM20 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	160	13 - 200 - 5,700	76
Basidiospores	210	13 - 450 - 23,000	92
Cladosporium	2,600	27 - 480 - 10,000	91
Curvularia	13	7 - 27 - 610	17
Epicoccum	27	7 - 20 - 330	25
Other brown	13	7 - 13 - 120	24
Penicillium/Aspergillus types	270	13 - 170 - 2,700	68
Rusts	120	7 - 20 - 350	20
Smuts, Periconia, Myxomycetes	430	7 - 53 - 960	64
Torula	13	7 - 13 - 180	9
Total	3,800		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21308001-1 TM21

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 6 Result: 4.3929 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.7576 Critical value: 0.5515 Outside Similar: Yes	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Smuts, Periconia, Myxomycetes	13
Total	67

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21308001-1 TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 6 Result: 4.3929 Critical value: 12.5916 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.7697 Critical value: 0.5515 Outside Similar: Yes	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Cladosporium	110
Smuts, Periconia, Myxomycetes	27
Total	190

Location: 21308001-1 TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 6 Result: 4.3929 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.2697 Critical value: 0.5515 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Other brown	13
Smuts, Periconia, Myxomycetes	13
Total	27

Location: 21308001-1 TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 6 Result: 4.3929 Critical value: 12.5916 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 13

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21308001-1 TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 6 Result: 4.3929 Critical value: 12.5916 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.3273 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Cladosporium	53
Total	67

Location: 21308001-1 TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 6 Result: 4.3929 Critical value: 12.5916 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.5758 Critical value: 0.5515 Outside Similar: Yes	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Cladosporium	110
Rusts	13
Total	170

Location: 21308001-1 TM27

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 6 Result: 4.3929 Critical value: 12.5916 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.5879 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	13
Total	13

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MoldSTAT™: Supplementary Statistical Spore Trap Report

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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MoldSCORE™: Spore Trap Report

Outdoor Sample: 21308001-1 TM20 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		48	2,600
Curvularia		1	13
Epicoccum		2	27
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		5	270
Stachybotrys		ND	< 13
Torula		1	13
Seldom found growing indoors**			
Ascospores		3	160
Basidiospores		4	210
Rusts		9	120
Smuts, Periconia, Myxomycetes		32	430
Total			**3,813**

Location: 21308001-1 TM21

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		101
Total			**67**	**Final MoldSCORE**	**101**

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MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM22

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		101
Total			**187**	**Final MoldSCORE**	**105**

Location: 21308001-1 TM23

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**27**	**Final MoldSCORE**	**107**

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MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM24

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21308001-1 TM25

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**67**	**Final MoldSCORE**	**105**

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MoldSCORE™: Spore Trap Report

Location: 21308001-1 TM26

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		1	13		103
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**173**	**Final MoldSCORE**	**105**

Location: 21308001-1 TM27

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

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MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

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Request For Analysis

Project Number/~~Purchase Order~~: 21308001-1 Date Submitted: 8/6/13

Project Contact: L-Sandhu / K-hsi Turnaround Required: Normal

Lab Destination: EMLAB P&C Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21308001-1 TM01&06	75L	Air-O-Cell	Spore Trap Analysis
21308001-1 TM02	75L	↓	↓
21308001-1 TM03	75L		
21308001-1 TM04	75L		
21308001-1 TM05	75L		
21308001-1 TM06	75L		
21308001-1 TM07	75L	↓	↓

~~Special Instructions~~: Random sampling (R-1)

1. **Sampled by:** Sandhu on 8/6/13 **Received by:** 8/7/13 @ 223
2. **Relinquished by:** Sandhu on 8/7/13 **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only:

HYGIENE TECH
Hygiene Technologies International, Inc.
001099559
382 30
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 21308001-1 Date Submitted: 08/13/13 (1st)

Project Contact: L-Sandhu / K-Hsi Turnaround Required: Normal

Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21308001-1 TM08 OUT	75L	Air-o-cell	Spore Trap Analysis
21308001-1 TM09	75L	↓	↓
21308001-1 TM10	75L		
21308001-1 TM11	75L		
21308001-1 TM12	75L		
21308001-1 TM13	75L	↓	

Special ~~Instructions~~: E.MOLD Random Sampling (R-2)

1. Sampled by: #Sandhu On 8/12/13 @ 1459 Received by: 8/13/13 @ 1620
2. Relinquished by: #Sandhu on 8/13/13 @ 1800 Received by:
3. Relinquished by: (2nd) Received by:

Please include signature, date, and time

Lab Use Only:

HYGIENE
Hygiene Technologies International, Inc.
3625
(310) 370-2474 FAX
www.hygienetech.com

001104440

Request For Analysis

Project Number/~~Purchase Order~~: 21308001-1 Date Submitted: 08/23/13
Project Contact: L Sandhu (K-LS) Turnaround Required: Normal
Lab Destination: EMLAB P&K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21308001-1 TM14OUT	75 L	Air-o-cell	Spore Trap Analysis
21308001-1 TM15	75L	↓	↓
21308001-1 TM16	75L	↓	↓
21308001-1 TM17	75L	↓	↓
21308001-1 TM18	75L	↓	↓
21308001-1 TM19	75L	↓	↓

Special Instructions:

1. Sampled by: Sandhu on 8/22/13 @ 13:35 Received by: [signature] 8/23/13 @ 1200
2. Relinquished by: Sandhu on 8/23/13 @ 12:00 Received by:
3. Relinquished by: Received by:

Please include signature, date, and time

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Brussels • Vienna • Abuja • Mumbai • Beijing

HYGIENE TECH
Hygiene Technologies International, Inc.
3625 [illegible]
To[illegible]
(310) 370-2474 FAX
www.hygienetech.com

001105730

Request For Analysis

Project Number/~~Purchase Order~~: 21308001-1 Date Submitted: 08/27/13
Project Contact: Losandhu (K.LS) Turnaround Required: Normal
Lab Destination: EMLAB P&K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21308001-1 TM20	75L	Air-O-Cell	Spore Trap Analysis
21308001-1 TM21	75L	↓	↓
21308001-1 TM22	75L		
21308001-1 TM23	75L		
21308001-1 TM24	75L		
21308001-1 TM25	75L		
21308001-1 TM26	75L		
21308001-1 TM27	75L	↓	↓

~~Special Instructions~~ (Lab Instr.): Random Sampling (P-4)

1. Sampled by: [signature] on 8/27/13 @ 09:25 Received by: [signature] 8/27/13 @ 1220
2. Relinquished by: [signature] on 8/27/13 @ 12:22 Received by:
3. Relinquished by: Received by:

Please include signature, date, and time

Lab Use Only: